

Eos

Eos-400

The Eos range of VRLA batteries offers outstanding performance including a 15+ year design life and a cycle life in excess of 1200 cycles to 80% DOD. Built to the highest standards and compliant with the latest IEC60896-21/22 standard this range also offers 100% capacity out-of-the-box and is capable of handling deep discharges for complete peace of mind. The use of flexible connectors and several optional racking systems allows for multiple installation possibilities. This robust design uses the latest AGM technology to create a range that is suitable for many applications including both fixed and mobile telecoms, UPS, utilities and solar.



Specifications

Battery Model	Eos-400			
Nominal Voltage	2V			
Capacity (25°C)	10HR (40A, 1.80V)	3HR (100A, 1.80V)		1HR (220A, 1.75V)
	400AH	300AH		220AH
Dimensions	Length	Width	Height	Total Height
	166mm	184.5mm	360.5mm	372mm
Approx. Weight	24.5kg			
Internal Resistance	Approx 0.35mΩ			
Max Charge Current Allowed	100A			
Charge Voltage (25°C)	Cycle use		Float use	
	2. 35V/cell		2. 25V/cell	
Temperature Ranges	Operation(maximum):		-40°C to 55°C (-40°F to 131°F)	
	Operation(recommended):		15°C to 25°C (59°F to 77°F)	
	Storage:		-20°C to 40°C (-4°F to 104°F)	
Terminal	M8 Female			
Terminal Hardware Torque	15 ± 1.0Nm			
Container Material	ABS (V0 optional)			

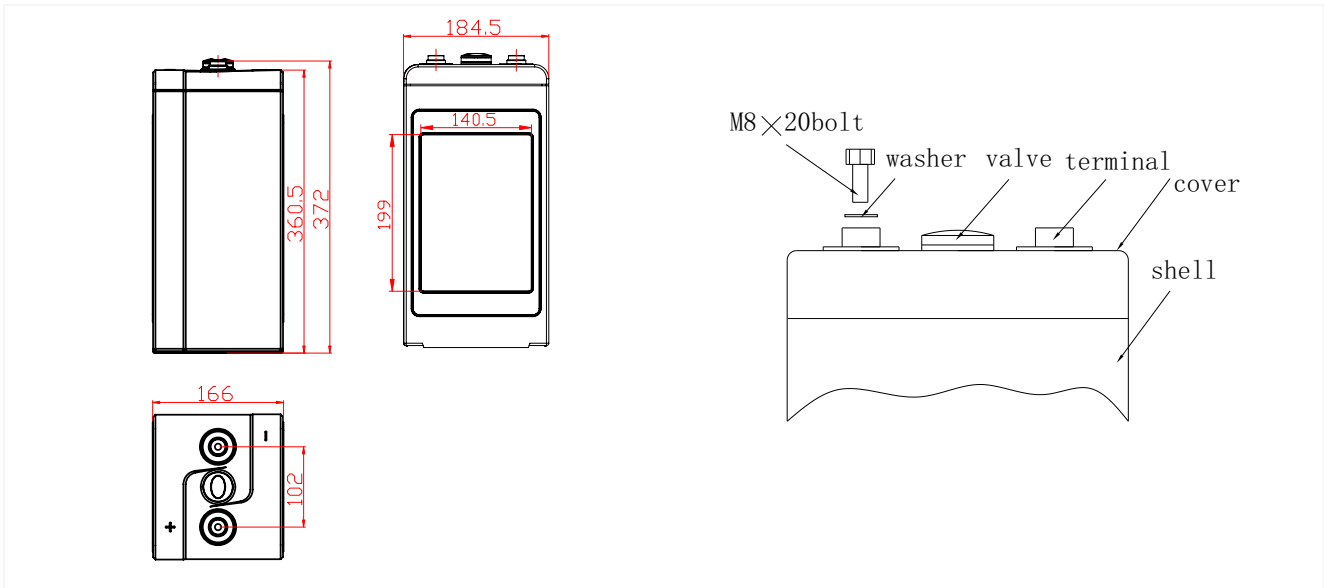
Constant Current Discharge Data Units: Amperes (25°C, 77°F)

End Voltage	Time (minutes)				Time (hours)									
	5	15	30	45	1	2	3	4	5	6	8	10	12	24
1.60V	667	558	413	319	261	154	113	90.7	76.7	66.1	52.7	43.8	37.0	19.5
1.65V	616	520	396	305	248	150	110	88.3	74.8	65.3	52.0	43.3	36.6	19.4
1.70V	576	488	364	285	237	145	107	87.1	74.1	64.4	51.1	42.7	36.2	19.3
1.75V	549	462	339	273	226	140	104	84.7	72.1	63.4	50.5	42.1	35.6	19.0
1.80V	528	436	317	253	211	134	101	81.9	70.4	61.8	49.5	41.1	34.8	18.7
1.83V	491	409	302	241	198	128	97.3	80.2	68.7	60.7	48.6	40.2	34.2	18.3
1.85V	467	386	282	230	191	121	95.4	79.3	68.0	59.8	48.1	40.0	34.0	18.1
1.90V	402	327	242	198	169	113	89.5	75.6	65.5	57.6	46.3	38.6	33.0	17.7
1.94V	361	291	215	174	150	102	82.3	70.0	60.7	53.5	43.2	36.4	31.2	17.0

Constant Power Discharge Data Units: Watts per cell (25°C, 77°F)

End Voltage	Time (minutes)				Time (hours)									
	5	15	30	45	1	2	3	4	5	6	8	10	12	24
1.60V	1133	949	756	627	539	347	257	205	170	145	113	92.7	79.2	42.5
1.65V	1078	911	715	585	498	319	242	195	164	141	109	90.4	77.2	41.5
1.70V	1036	878	697	560	474	310	233	188	160	138	107	87.8	75.2	40.2
1.75V	1004	845	673	540	455	299	224	184	156	135	103	86.5	73.9	39.6
1.80V	976	806	649	524	445	293	216	178	152	131	100	85.1	72.3	39.0
1.83V	923	769	612	503	429	281	211	176	149	127	98.3	83.5	71.3	38.3
1.85V	888	734	578	476	405	269	205	171	145	124	97.0	81.8	70.0	37.5
1.90V	783	637	487	399	348	234	190	160	135	116	90.8	75.9	65.7	36.0
1.94V	708	570	436	359	309	216	177	149	128	111	87.1	72.6	62.7	35.0

Dimensions (mm)

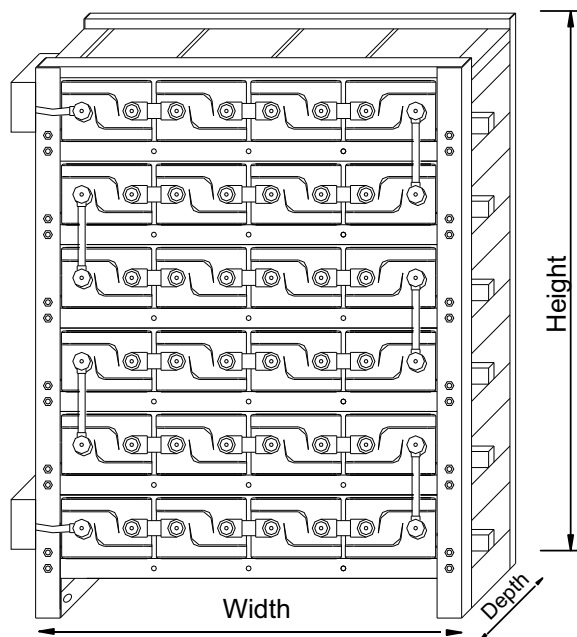


Racking (optional)

Narada racks are constructed using strong, easy to assemble, powder-coated steel tubing and come complete with sliding cover terminal (take-off) plates.

Cell model:	Eos-400	
Number of cells:	24	
System Voltage:	48	
Cell Configuration	4 high 6 wide	6 high 4 wide
Rack Width*	1255 mm	868 mm
Rack Depth	365 mm	365 mm
Rack Height	960 mm	1390 mm
System Weight	649 kg	649 kg

* Please allow 100mm for terminal boxes



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